

# SIMOVERT MASTERDRIVES Vector Control

## Compact PLUS, Compact and Chassis Units



### Rectifier units

### Compact PLUS units Compact and chassis units

#### Selection and ordering data

Nominal power rating <sup>1)</sup>	Rated DC link current	DC link base load current	DC link short-time current	Supply current <sup>2)</sup>	Rectifier unit	Max. power loss	Braking power with integrated braking chopper		
							Smallest permissible value of external braking resistor $R_{min}$	Rated braking power $P_{20}$ with $R_{min}$	Short-time braking power $P_3$ with $R_{min}$
kW	A	A	A	A	Order No.	kW	$\Omega$	kW	kW

#### Compact PLUS units

##### Supply voltage 3-ph. 380 V AC -15 % to 480 V AC +10 % 50/60 Hz

15	41	–	66 <sup>4)</sup>	36	6SE7024-1EP85-0AA0	0.13	19	20	30
50	120	–	192 <sup>4)</sup>	108	6SE7031-2EP85-0AA0	0.27	6.5	60	90
100	230	–	368 <sup>4)</sup>	207	6SE7032-3EP85-0AA0	0.60	3.4	116	174

#### Compact and chassis units

##### Supply voltage 3-ph. 380 V to 480 V AC

15	41	37	56	36	6SE7024-1EB85-0AA0	0.12	–	–	–
37	86	78	117	75	6SE7028-6EC85-0AA0	0.26	–	–	–
75	173	157	235	149	6SE7031-7EE85-0AA0	0.62	–	–	–
110	270	246	367	233	6SE7032-7EE85-0AA0	0.86	–	–	–
160	375	341	510	326	6SE7033-8EE85-0AA0	1.07	–	–	–
200	463	421	630	403	6SE7034-6EE85-0AA0	1.32	–	–	–
250	605	551	823	526	6SE7036-1EE85-0AA0	1.67	–	–	–
400	821	747	1117	710	6SE7038-2EH85-0AA0 <sup>3)</sup>	3.29	–	–	–
500	1023	931	1391	888	6SE7041-0EH85-0AA0 <sup>3)</sup>	3.70	–	–	–
630	1333	1213	1813	1156	6SE7041-3EK85-0AA0 <sup>3)</sup>	4.85	–	–	–
800	1780	1620	2421	1542	6SE7041-8EK85-0AA0 <sup>3)</sup>	6.24	–	–	–

##### Supply voltage 3-ph. 500 V to 600 V AC

22	41	37	56	36	6SE7024-1FB85-0AA0	0.21	–	–	–
37	72	66	98	63	6SE7027-2FC85-0AA0	0.22	–	–	–
55	94	86	128	81	6SE7028-8FC85-0AA0	0.28	–	–	–
75	142	129	193	123	6SE7031-4FE85-0AA0	0.65	–	–	–
132	235	214	320	203	6SE7032-4FE85-0AA0	0.97	–	–	–
200	354	322	481	307	6SE7033-5FE85-0AA0	1.25	–	–	–
250	420	382	571	366	6SE7034-2FE85-0AA0	1.27	–	–	–
315	536	488	729	465	6SE7035-4FE85-0AA0	1.74	–	–	–
400	774	704	1053	671	6SE7037-7FH85-0AA0 <sup>3)</sup>	3.30	–	–	–
630	1023	931	1391	888	6SE7041-0FH85-0AA0 <sup>3)</sup>	4.03	–	–	–
800	1285	1169	1748	1119	6SE7041-3FK85-0AA0 <sup>3)</sup>	5.40	–	–	–
900	1464	1332	1991	1269	6SE7041-5FK85-0AA0 <sup>3)</sup>	5.87	–	–	–
1100	1880	1711	2557	1633	6SE7041-8FK85-0AA0 <sup>3)</sup>	6.65	–	–	–

##### Supply voltage 3-ph. 660 V to 690 V AC

160	222	202	302	194	6SE7032-2HE85-0AA0	1.08	–	–	–
250	354	322	481	308	6SE7033-5HE85-0AA0	1.33	–	–	–
315	420	382	571	366	6SE7034-2HE85-0AA0	1.58	–	–	–
400	536	488	729	465	6SE7035-4HE85-0AA0	2.02	–	–	–
630	774	704	1053	671	6SE7037-7HH85-0AA0 <sup>3)</sup>	3.70	–	–	–
800	1023	931	1391	888	6SE7041-0HH85-0AA0 <sup>3)</sup>	4.15	–	–	–
1000	1285	1169	1748	1119	6SE7041-3HK85-0AA0 <sup>3)</sup>	5.54	–	–	–
1100	1464	1332	1991	1269	6SE7041-5HK85-0AA0 <sup>3)</sup>	6.00	–	–	–
1500	1880	1711	2557	1633	6SE7041-8HK85-0AA0 <sup>3)</sup>	7.62	–	–	–

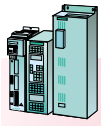
1) Nominal power ratings are quoted for ease of assigning components only. The drive outputs are dependent on the inverters connected and are to be dimensioned accordingly.

2) The current data refer to a line supply inductance of 3 % referred to the rectifier unit impedance  $Z$ , i.e. the ratio of the system fault level to the converter output is 33:1 or 100:1 if an additional 2 % line reactor is used.

$$\text{Rectifier unit impedance: } Z = \frac{V_{\text{supply}}}{\sqrt{3} \cdot I_{\text{supply}}}$$

3) An interface adapter **6SE7090-0XX85-1TA0** is required if these rectifier units are used for 12-pulse system.

4) Short-time current:  
**1.6 x  $I_N$  for 30 s**  
**1.36 x  $I_N$  for 60 s**



# SIMOVERT MASTERDRIVES Vector Control

## Compact PLUS, Compact and Chassis Units

Compact PLUS units  
Compact and chassis units

Rectifier units

Dimensions W x H x D	Dimen- sion drawing, see Sec- tion 7	Weight approx. kg	Cooling air require- ment m <sup>3</sup> /s	Sound pressure level with standard protection degree IP20/IP00 L <sub>pA</sub> (1 m)	Power connections – Terminals for sizes B, C and P – Lugs for sizes E, H and K – Location: at bottom for AC, at top for DC			Auxiliary current requirement				
					Finely stranded mm <sup>2</sup>	Single- and multi- stranded mm <sup>2</sup>	Retaining bolt	24 V DC Standard version max. at 20 V A	24 V DC Max. version max. at 20 V A	1-ph. or 2-ph. 230 V fan A	A	
					50 Hz						50 Hz	60 Hz
mm	No.	kg	m <sup>3</sup> /s	dB	mm <sup>2</sup>	mm <sup>2</sup>		A	A	A	A	
90 x 360 x 260	5	13.3	0.018	60	10	10	–	–	0.5	–	–	
135 x 360 x 260	5	6.0	0.041	68	50	50	–	–	0.7	–	–	
180 x 360 x 260	5	2.7	0.053	65	95	95	–	–	0.7	–	–	
135 x 425 x 350	6	12	0.022	60	2.5 to 10	2.5 to 16		0.5	–	none	none	
180 x 600 x 350	6	18	0.028	60	2.5 to 35	10 to 50		0.5	–	none	none	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 16	0.3	–	0.6	0.75	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
800 x 1400 x 565	17	260	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
800 x 1400 x 565	17	300	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
135 x 425 x 350	6	12	0.022	60	2.5 to 10	2.5 to 16		0.5	–	none	none	
180 x 600 x 350	6	18	0.028	60	2.5 to 35	10 to 50		0.5	–	none	none	
180 x 600 x 350	6	18	0.028	60	2.5 to 35	10 to 50		0.5	–	none	none	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 16	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 16	0.3	–	0.6	0.75	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
800 x 1400 x 565	17	260	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
800 x 1400 x 565	17	300	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
800 x 1400 x 565	17	300	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 12	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 16	0.3	–	0.6	0.75	
270 x 1050 x 365	14	45	0.2	75		2 x 300	M 16	0.3	–	0.6	0.75	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
508 x 1050 x 565	15	130	0.70	80		4 x 300	M 12	1.0	2.3	2.8	3.5	
800 x 1400 x 565	17	260	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
800 x 1400 x 565	17	300	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	
800 x 1400 x 565	17	300	1.00	86		4 x 300	M 12	1.0	2.3	5.6	7.0	